TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants
Contractor	M/s N LOKANATH REDDY

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate M sand)	**Proposed Use**	concrete
Sample Location	At Plant	**Date of Sampling**	09-08-2021
		Date of Testing	09-08-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	210	210	7.00	93.00	90 - 100
2.36 mm	326	536	17.87	82.13	75 - 100
1.18 mm	414	950	31.67	68.33	55 - 90
0.600 mm	482	1432	47.73	52.27	35 -59
0.300 mm	755	2187	72.90	27.10	8-30
0.150 mm	640	2827	94.23	5.77	0 - 10
Pan	173	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	09-08-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	112 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	494 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	09-08-2021
Sample Supplied By	Agency

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants
Contractor	M/s N LOKANATH REDDY

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	09-08-2021
Period of Soaking	24 hours	Date of Testing	10-08-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	662	676	642	
B	Weight of oven - dry sample gm.	653	668	634	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1692	1700	1678	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.665	2.661	2.653	**2.660**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.378	1.198	1.262	**1.279**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants
Contractor	M/s N LOKANATH REDDY

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate M sand)	Proposed Use	concrete
Sample Location	At Plant	Date of Sampling	10-08-2021
		Date of Testing	10-08-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	215	215	7.17	92.83	90 - 100
2.36 mm	322	537	17.90	82.10	75 - 100
1.18 mm	412	949	31.63	68.37	55 - 90
0.600 mm	486	1435	47.83	52.17	35 -59
0.300 mm	762	2197	73.23	26.77	8-30
0.150 mm	632	2829	94.30	5.70	0 - 10
Pan	171	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	10-08-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	108. Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	384 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	Tejus Consultants				
Contractor	M/s N LOKANATH REDDY				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	**12.5 mm down size**		**Proposed Use**	CONCRETE	
Sample Location	At Plant		**Date of Sampling**	10-08-2021	
			Date of Testing	10-08-2021	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	496	496	4.96	95.04	**90-100**
10.0	4520	5016	50.16	49.84	**40-85**
4.75	4432	9448	94.48	5.52	**0-10**
Pan	552	10000			
Remarks :		✓ Satisfactory / Not Satisfactory			

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Assistant Executive Engineer
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BBMP, Bangalore

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	Tejus Consultants				
Contractor	M/s N LOKANATH REDDY				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	At Plant		**Date of Sampling**	10-08-2021	
			Date of Testing	10-08-2021	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	100
20.00 mm	266	266	2.66	97.34	95 - 100
10.00 mm	4920	5186	51.86	48.14	25 - 55
4.75 mm	4222	9408	94.08	5.92	0 - 10
Pan	592	10000			
Remarks :	✓ Satisfactory / Not Satisfactory				

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Asstt. M.D.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	10-08-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	108. Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	384 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Authorised Signatory

TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s N LOKANATH REDDY
Name of Work	:	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
No.of Sample Tested	:	3
Date of Testing	:	12-08-2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.457	2586.09	1.80	0.960	39.60	20.17	21.78	20.91	26.14
2	50.00	90.00	0.462	2614.39	1.80	0.960	39.50	20.12	21.73	20.86	26.07
3	50.00	90.00	0.454	2569.11	1.80	0.960	39.45	20.09	21.70	20.83	26.04

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N.D.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TEJUS CONSULTANTS

Consultant's Representative

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ganagamma Layout

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	10-08-2021	17-08-2021	7 days	8.132	22500	310	13.78	13.75
2	10-08-2021	17-08-2021	7 days	8.142	22500	310	13.78	
3	10-08-2021	17-08-2021	7 days	8.135	22500	308	13.69	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ganagamma Layout

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	11-08-2021	18-08-2021	7 days	8.123	22500	312	13.87	13.79
2	11-08-2021	18-08-2021	7 days	8.136	22500	305	13.56	
3	11-08-2021	18-08-2021	7 days	8.140	22500	314	13.96	

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Kodigehalli Sub Division
BBMP, Bangalore

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CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ganagamma Layout

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	12-08-2021	19-08-2021	7 days	8.126	22500	314	13.96	13.81
2	12-08-2021	19-08-2021	7 days	8.130	22500	312	13.87	
3	12-08-2021	19-08-2021	7 days	8.143	22500	306	13.60	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ganagamma Layout

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	13-08-2021	20-08-2021	7 days	8.144	22500	316	14.04	13.87
2	13-08-2021	20-08-2021	7 days	8.138	22500	308	13.69	
3	13-08-2021	20-08-2021	7 days	8.124	22500	312	13.87	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ganagamma Layout

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	14-08-2021	21-08-2021	7 days	8.136	22500	316	14.04	13.91
2	14-08-2021	21-08-2021	7 days	8.124	22500	318	14.13	
3	14-08-2021	21-08-2021	7 days	8.140	22500	305	13.56	

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BBMP, Bangalore

TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s N LOKANATH REDDY
Name of Work	:	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
No.of Sample Tested	:	3
Date of Testing	:	02-09-2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20 . 250mm Thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	180.00	3.532	2498.38	1.80	0.960	160.00	20.37	22.00	21.12	26.40
2	100.00	180.00	3.540	2504.04	1.80	0.960	165.00	21.01	22.69	21.78	27.23
3	100.00	180.00	3.536	2501.21	1.80	0.960	158.00	20.12	21.73	20.86	26.07

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s N LOKANATH REDDY
Name of Work	:	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
No.of Sample Tested	:	3
Date of Testing	:	02-09-2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20 , 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.460	2603.07	1.80	0.960	39.56	20.15	21.76	20.89	26.11
2	50.00	90.00	0.458	2591.75	1.80	0.960	39.62	20.18	21.79	20.92	26.15
3	50.00	90.00	0.462	2614.39	1.80	0.960	39.60	20.17	21.78	20.91	26.14

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

BBMP, N.D.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Consultant's Representative

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ganagamma Layout

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	10-08-2021	07-09-2021	28 days	8.126	22500	502	22.31	22.37
2	10-08-2021	07-09-2021	28 days	8.138	22500	510	22.67	
3	10-08-2021	07-09-2021	28 days	8.142	22500	498	22.13	

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Authorised Signatory

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Reference IS code:	IS:516-1959
Sample Location	Ganagamma Layout

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	11-08-2021	08-09-2021	28days	8.136	22500	496	22.04	21.84
2	11-08-2021	08-09-2021	28days	8.144	22500	488	21.69	
3	11-08-2021	08-09-2021	28days	8.132	22500	490	21.78	

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Reference IS code:	IS:516-1959
Sample Location	Ganagamma Layout

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	12-08-2021	09-09-2021	28days	8.126	22500	498	22.13	22.07
2	12-08-2021	09-09-2021	28days	8.128	22500	496	22.04	
3	12-08-2021	09-09-2021	28days	8.132	22500	496	22.04	

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				Kg	mm^2	KN	N/mm^2	N/mm^2
1	13-08-2021	10-09-2021	28days	8.124	22500	495	22.00	21.87
2	13-08-2021	10-09-2021	28days	8.142	22500	488	21.69	
3	13-08-2021	10-09-2021	28days	8.144	22500	493	21.91	

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				Kg	mm^2	KN	N/mm^2	N/mm^2
1	14-08-2021	11-09-2021	28days	8.143	22500	496	22.04	22.03
2	14-08-2021	11-09-2021	28days	8.138	22500	493	21.91	
3	14-08-2021	11-09-2021	28days	8.130	22500	498	22.13	

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